

LINEAR[®]
FLAT PC AS/ND

SOAPPLAST
ITALIAN DRIPLINES MANUFACTURER

Soapplast offers a **complete range of driplines** for every type of crop, topographical conditions, soil quality and water.

The **drip irrigation system** allows significant savings of water and economic, the efficient use of water, where necessary, guarantees nourishment to the plants avoiding unnecessary waste.

Since the **80s**, Soapplast has invested in the research of irrigation solutions for agriculture using high quality raw materials and advanced machinery in the production of driplines.

The constant quality of the production process is guaranteed by the **ISO 9001**.

The Soapplast International Logistics benefits great simplifications thanks to the **AEO** Authorization released by the European Agency of Customs and Monopolies, after strict controls.

Soapplast goods sold to Countries which have signed a Free Trade Agreement with the EU pay less customs duties, so-called preferential customs tariffs, because Soapplast is an **Exporter Authorized** by the European Customs Authorities.

The Company also holds **International Patents**.

Today Soapplast is pleased to offer its customers completely **"Made in Italy"** products, technologically advanced, reliable and appreciated all over the **world**.



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LINEAR[®]
FLAT PC AS/ND



**SMART
IRRIGATION
SOLUTION**

SOAPPLAST
ITALIAN DRIPLINES MANUFACTURER

TECHNICAL DATA

| LINEAR FLAT PC® AS-ND | | | | | | |
|-------------------------|---|-------------------|----------------|------------------|----------------|------------------|
| Nominal Diameter | 16 mm | | | | 20 mm | |
| Thickness | 24 mil* 0,6 mm | 35 mil 0,87 mm | 40 mil 1 mm | 44 mil 1,1 mm | 40 mil 1 mm | 44 mil 1,1 mm |
| Internal Diameter | 16,1 mm | 14,2 mm | 14 mm | 13,8 mm | 18 mm | 17,8 mm |
| Max Working Pressure | 2,00 bar | 3,00 bar | 3,50 bar | 3,50 bar | 3,00 bar | 3,00 bar |
| Min Working Pressure | 0,55 bar | | | | | |
| Nominal Flow Rate (l/h) | 1,1 - 1,5 - 2,4 - 3,8 | | | | | |
| Standard Spacing (cm) | 15 - 20 - 23 - 25 - 30 - 33 - 40 - 50 - 60 - 70 | | | | | |
| Reel Length (Meter) | 600 m | 500 m | 500 m | 500 m | 300 m | 300 m |
| Filtration Recommended | 120 Mesh / 130 Micron | | | | | |

*Reels are available in cardboard packaging for thicknesses up to 24 mil

PRODUCT DESCRIPTION

LINEAR FLAT PC® is manufactured by Soapplast within its own factory in Italy, it is a polyethylene-made dripline with an integrated **pressure compensating flat dripper**.

The peculiar feature of **LINEAR FLAT PC®** is the functioning of its pressure compensating dripper, designed to **guarantee constant flow in the entire line** when the working pressure varies. **LINEAR FLAT PC®** meets several irrigation needs, especially in the case of **steep soils, large areas or long stretches**.

The wide range of capacities as well as the multiple spacings allow a high flexibility of the product thus adapting it to the numerous needs that the cultivation activity requires.

LINEAR FLAT PC® is available in medium-heavy thicknesses sizes that ensure a **multi-seasonal durability** of the product. Its use is suited both in protected cultivation fields such as greenhouses and in fields with tree crops such as: vineyards, olive groves, orchards, flowerbeds, hedges, etc.

LINEAR FLAT PC® is available in the following versions:

NO-DRAIN

The drippers that open and close simultaneously allow the exact water outflow, keeping the rest of the water inside the hose. This version is more suitable for **short and frequent irrigation cycles**. The always kept under pressure system allows a lower waste of water and energy.

Opening and closing for No-Drain version
Opening pressure: 0.40 bar
Closing pressure: 0.10 bar

ANTI-SIPHON

the anti-siphon drippers prevent any elements such as sand or other particles from causing blockages and occlusion. Thanks to this feature, **LINEAR FLAT PC®** can also be installed underground, according to the technical instructions that qualified professionals with experience in the field of sub-irrigation and soil moisture control will be able to provide you.

LINEAR FLAT PC® FEATURES

Constant flow rate when the inlet pressure changes;

Reliable performance and long-lasting durability;

Excellent homogeneity;

Excellent resistance to occlusion;

Low pressure sensitivity;

Low technological variation coefficient;

High resistance to UV rays, thermal stress, mechanical stress, attack of microorganisms, molds and acids or alkaline solutions normally used in agriculture;

Easy spreading thanks to the double continuous strip and emitter side, ensuring significant labor savings;

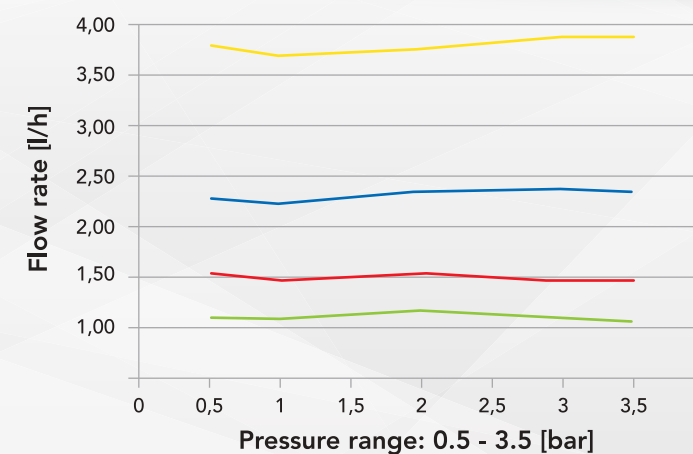
Less maintenance required.



RECOMMENDED DISTANCES

| P = 3.0 bar | | i = 0% slope | | |
|-------------|----------|--------------|-----|-----|
| D [mm] | qn [l/h] | SPACING [cm] | | |
| | | 30 | 60 | 100 |
| 16 | 1,1 | 171 | 313 | 469 |
| | 1,5 | 161 | 273 | 395 |
| | 2,4 | 125 | 210 | 304 |
| | 3,8 | 93 | 156 | 227 |
| 20 | 1,1 | 292 | 503 | 727 |
| | 1,5 | 236 | 406 | 592 |
| | 2,4 | 182 | 311 | 453 |
| | 3,8 | 135 | 233 | 337 |

PRESSURE CURVE



| | Pressure p [bar] | 0,55 | 1 | 2 | 3 | 4 |
|---------|-------------------|------|------|------|------|------|
| 3,8 l/h | Flow Rate q [l/h] | 3,80 | 3,67 | 3,74 | 3,89 | 3,90 |
| 2,4 l/h | | 2,28 | 2,22 | 2,36 | 2,39 | 2,35 |
| 1,5 l/h | | 1,52 | 1,49 | 1,51 | 1,50 | 1,48 |
| 1,1 l/h | | 1,10 | 1,08 | 1,16 | 1,09 | 1,07 |

LEGEND

— 3,8 lph — 2,4 lph — 1,5 lph — 1,1 lph

Technical data are subject to modification for improvements without prior notice.